

# RIBF User Group Town Meeting

22 March, 2018@TUS

UEC Report: Isobe

RNC-RIBF Report: Yoneda

Report on the mid-term plan: Ueno

# FY2017 (and 2018?) RIBF UEC members

- Apr. 2015 - Mar. 2019
  - T. Isobe : RNC : Exp. : Chair → vice-chair from FY2018
  - T. Nakamura : Titech : Exp. : HP
  - S. Ota : CNS : Exp. : Users meeting
  - Y. Kanada-En'yo : Kyoto : Theor. : Thesis award
  - K. Yoshida : Niigata : Theor. : vice-chair, RIBF User Group List
- Apr. 2017 - Mar. 2021
  - K. Wimmer : U-Tokyo : Exp. : vice-chair → chair from FY2018
  - S. Sakaguchi : Kyusyu : Exp. : HP, Users meeting HP
  - Y. Watanabe : KEK : Exp. : Users meeting
  - W. Horiuchi : Hokkaido : Theor. : Thesis award
  - T. Matsumoto : Kyusyu : Theor. : RIBF User Group List
- Supplemental members
  - M. Asai : JAEA : Exp
  - J. Gibelin : LPC : Exp.

# UEC activity

- Report at RIBF MT Committee meeting
- Thesis award
  - Award for 2018 is under preparation
- RIBF 10<sup>th</sup> anniversary symposium
  - 2 day workshop. ~120 participants.
- Users meeting 2018



# RIBF week 2018 Sep 3<sup>rd</sup>.~

- Sep. 3 (Mon.) : SAMURAI ICW
- Sep. 4 (Tue.) : SAMURAI ICW
- Sep. 5 (Wed.) : RIBF Users meeting
- Sep. 6 (Thu.) : RIBF Users meeting / SUNFLOWER WS
- Sep. 7 (Fri.) : SUNFLOWER WS

# What I wanted to do.

- Provide occasion to establish strong communication among nuclear physicists for future RIBF.
  - experimentalists and theorists
  - domestic users and foreign users
- Think strategy to introduce  $\gamma$ -tracking array seriously.
  - Whitepaper is being made.
  - Maybe need to have workshop.

# RIBF Status Report

**Ken-ichiro YONEDA**

User Liaison and Industry Cooperation Group

RIKEN Nishina Center

RIBF Users Group Town Meeting

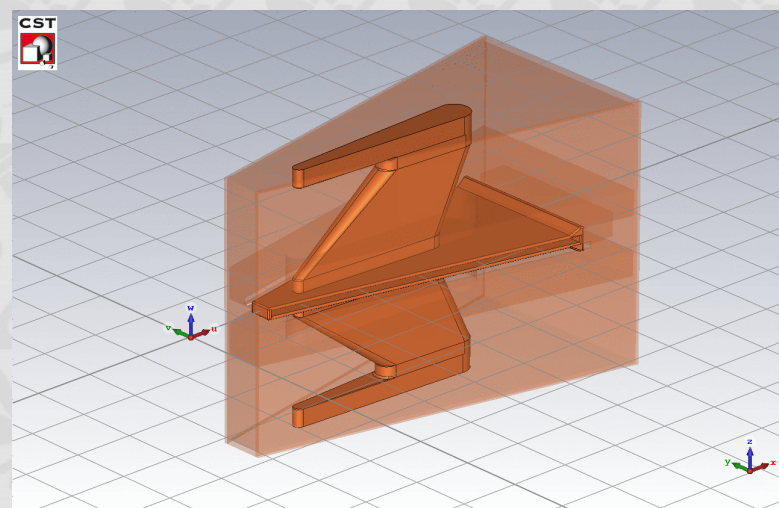
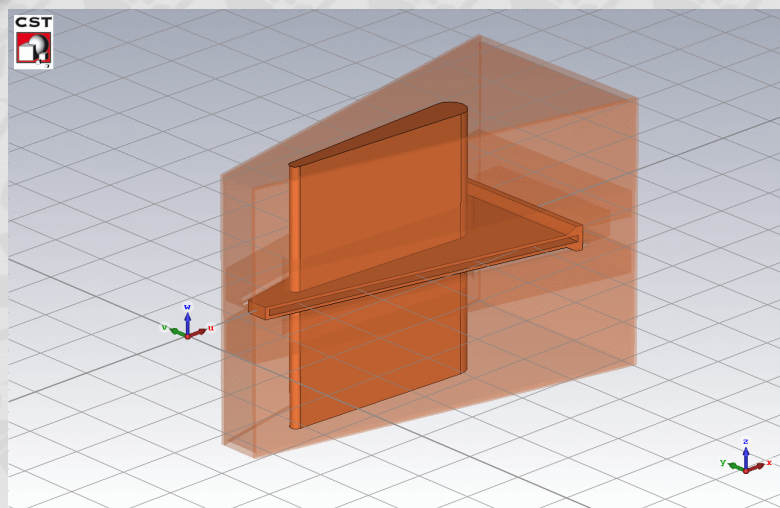
Tokyo University of Science, Noda, 22 March, 2018

- RRC RF Update
- “User Fee” Issue
- RIBF Beam Time Operation in 2nd Half of FY2017
- Beam Time Plan in and after 1st Half of FY2018
- Announcements



# RRC RF update (1/3)

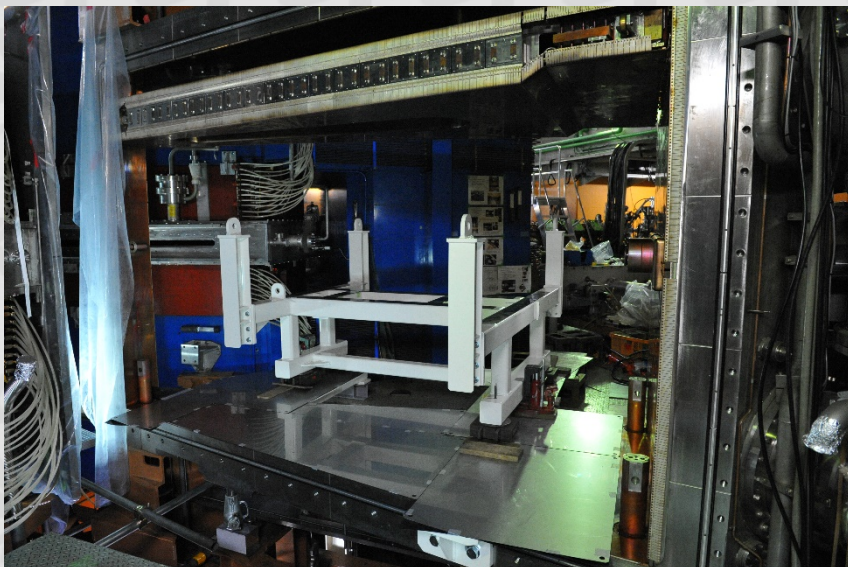
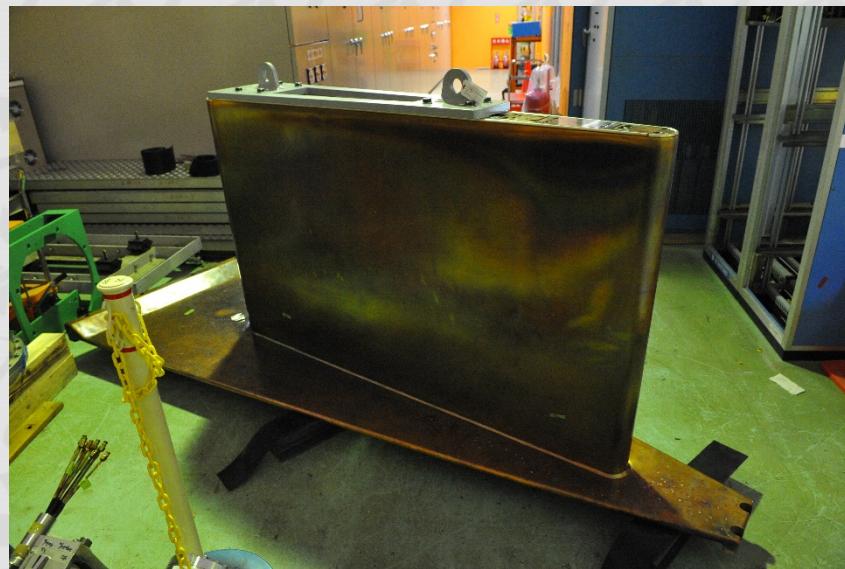
shown in last Town Meeting  
picture by K.Yamada



- old cooling water pipe → renewed
- Frequency coverage 20-45MHz → 16-38.7MHz  
V acceleration 18.25 MHz to be in the range  
(U acceleration also 18.25 MHz)

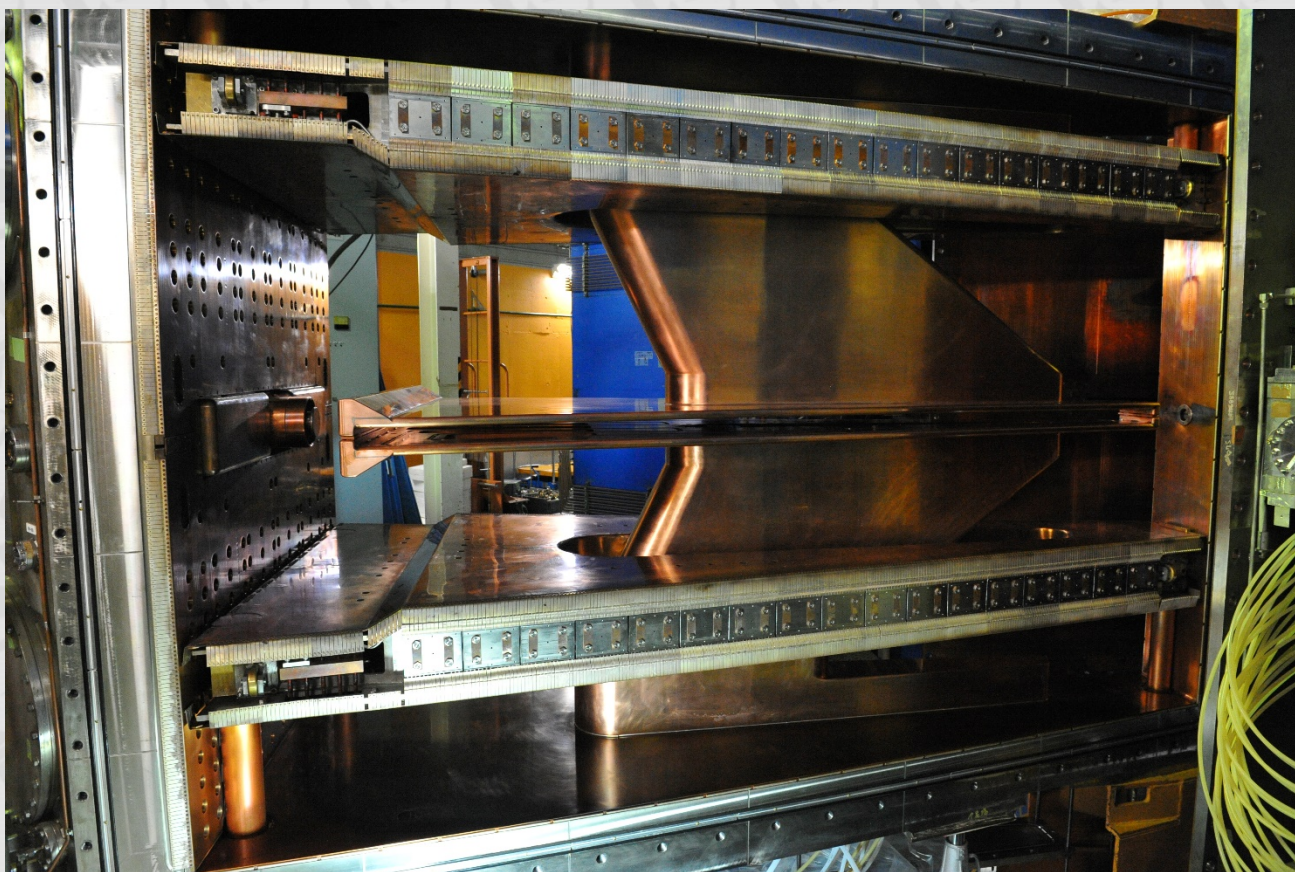


# RRC RF update (2/3)





# RRC RF update (3/3)



- on-site work underway as scheduled
- test & conditioning from April



## Report Article by Director En’yo

### IUPAP Meetings and Nuclear Science Symposium at Nihon-Bashi

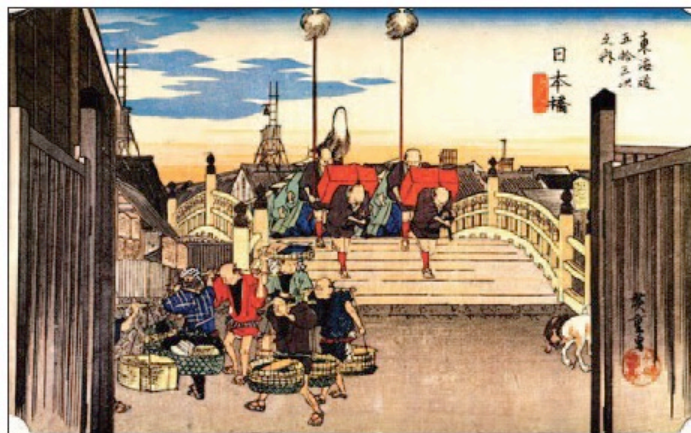
The IUPAP Commission 12 (for nuclear physics) and Working Group 9 (WG.9: on international cooperation in nuclear physics) meet annually, usually on consecutive days. The most recent meetings were held at the RIKEN Tokyo office in Nihon-Bashi, Tokyo, 29–30 August 2017. Nihon-Bashi means Japan-Bridge, and the 113th element nihonium is named after Nihon (Japan, or Nippon). It is clear from the name of the place that the office is in a very posh central district of Tokyo and in the same building as Bank of America and Merrill Lynch.

Every two years the meetings are organized together with the Nuclear Science Symposium (NSS) in which recent progress in nuclear physics and related developments are reviewed and discussed in the presence of invited representatives from the national funding agencies from around the world. This time 14 such representatives par-

ticipated in the symposium from NRF (Zuid-Afrika), NSERC/NRC (Canada), CNRS/IN2P3 (France), INFN (Italy), ANSTO (Australia), the Department of Energy (USA), STFC

(United Kingdom), RIKEN (Japan), CEA (France), and the Chinese Academy of Sciences (China).

During the symposium, special in-camera meetings for the funding



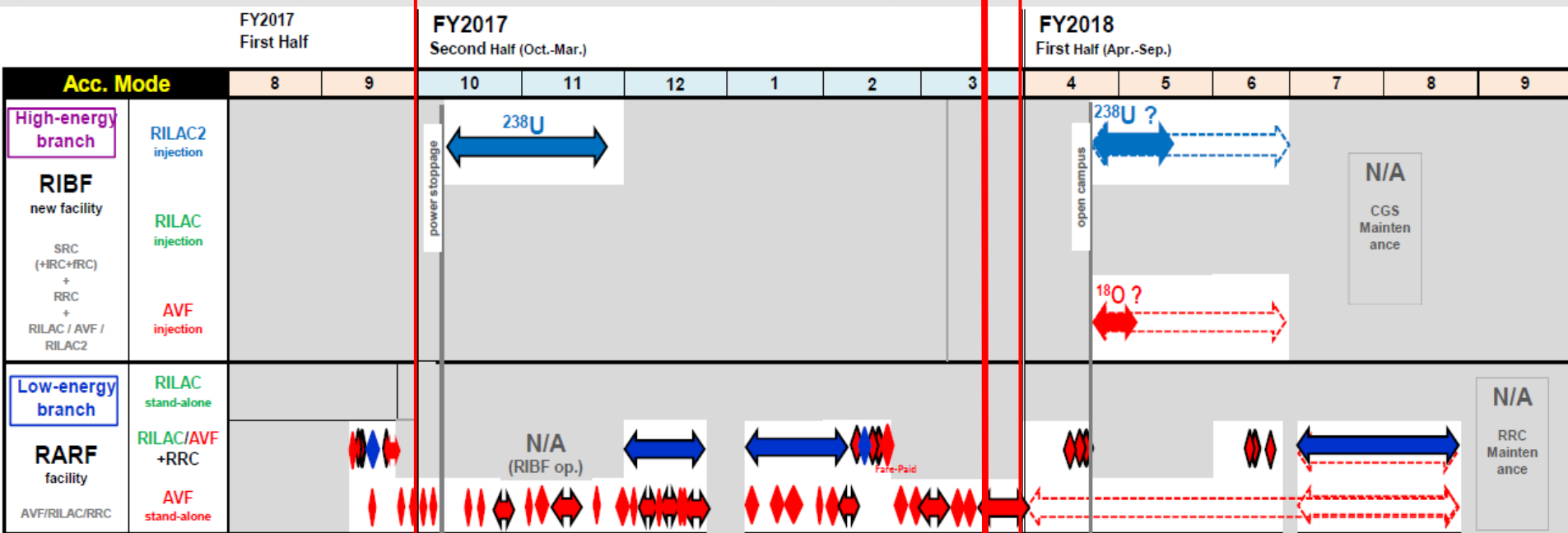
**Figure 1.** Ancient image of Nihon-Bashi in ukiyo-e was drawn by Hokusai. This was the starting point of all the highways from Tokyo (or Edo in these days). **AQ1**

Pressure for “fee” seems to be getting weaker, but...

# Beam Time Operation -- FY2017 2nd Half

- $^{238}\text{U}$  only in new facility  
“reserved” experiments only
- SHE experiment @ E6 started

Now













# Beam Time Plan April-June 2018

April

April 2018																																														
Proposal Number	Experiment Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start-time	end-time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30								
										Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
<b>AVF stand-alone</b>																																														
IMPACT17-03	-07	奥野 広樹 H. OKUNO	AVF-C03	d	12	10 ppA	15.5	3/16 21:00	4/1 9:00																																					
IMPACT18-01	-01	奥野 広樹 H. OKUNO	AVF-C03 or E7B	d	12	10 ppA	14	4/1 9:00	4/15 9:00																																					
RI0702 -AVF4	-87	羽場 宏光 H. HABA	AVF-C03 or E7B	d	12	15 ppA	1.5	4/16 9:00	4/17 21:00																																					
MS -EXP18	-01	田中 穂信 K. TANAKA	E7B	$\alpha$	7.25	100 ppA	1	4/19 9:00	4/20 9:00																																					
RI0702 -AVF4	-88	羽場 宏光 H. HABA	AVF-C03 or E7B	$\alpha$	7.25	15 ppA	1	4/22 9:00	4/23 9:00																																					
NP1512 -AVF27	-03	井上 梓 A. INOUE	E7A(CRIB)	7Li	5.6	1650 ppA	3	4/28 9:00	5/1 9:00																																					
<b>AVF+RRC</b>																																														
IB0702 -RRC1	-121	阿部 知子 T. ABE	E5B	$^{12}\text{C}$	135	1 ppA	6hrs	4/24 9:00	4/24 15:00																																					
RI0702 -RRC4	-10	羽場 宏光 H. HABA	E3B	$^{14}\text{N}$	11	1 ppA	1	4/22 9:00	4/23 9:00																																					

RRC: RF conditioning

June

June 2018																																																
Experiment Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start-time	end-time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30											
										Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
奥野 広樹 H. OKUNO	E7B or AVF-C03	d	12	10 ppA	8.5	6/22 9:00	6/30 21:00																																									
羽場 宏光 H. HABA	E7B or AVF-C03	$\alpha$	7.25	15 ppA	1	6/22 9:00	6/23 9:00																																									
羽場 宏光 H. HABA	E7B or AVF-C03	d	12	10 ppA	8.5	6/22 9:00	6/30 21:00																																									
奥野 広樹 H. OKUNO	E7B or AVF-C03	d	12	10 ppA	8.5	6/22 9:00	6/30 21:00																																									
白藤 Higurashi	山田	森田 浩介 K. MORITA	E6 (GARIS2)			6/2 9:00	10/1 9:00																																									

SHE@E6

May

May 2018																																																			
Proposal Number	Experiment Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start-time	end-time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31												
										Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
<b>AVF stand-alone</b>																																																			
NP1512 -AVF27	-03	井上 梓 A. INOUE	E7A(CRIB)	7Li	5.6	1650 ppA	3	4/28 9:00	5/1 9:00																																										
<b>RIBF (SRC)</b>																																																			
NP1612 -SAMURAI12R1	-01	Didier BEAUMEL	SAMURAI	$^{18}\text{O}$	230	400 ppA	8.5	5/10 21:00	5/19 9:00																																										
NP1512 -SAMURAI31	-01	Yelci SUN	SAMURAI	$^{18}\text{O}$	230	5 ppA	2.5	5/19 9:00	5/21 21:00																																										
NP1412 -SAMURAI30	-01	Laszlo STUHL	SAMURAI	$^{18}\text{O}$	230	max	5	5/23 21:00	5/28 21:00																																										
NP1412 -SAMURAI29R1	-01	Livius TRACHE	SAMURAI	$^{18}\text{O}$	230	200 ppA	3	5/23 21:00	5/31 21:00																																										
MS -EXP18	-02	吉田 光一 K. YOSHIDA	BigRIPS	$^{18}\text{O}$	230	10 ppA	1.5	5/31 21:00	6/2 9:00																																										

$^{18}\text{O}$

$^{78}\text{Kr}$ , tentative



# Backlog experiments

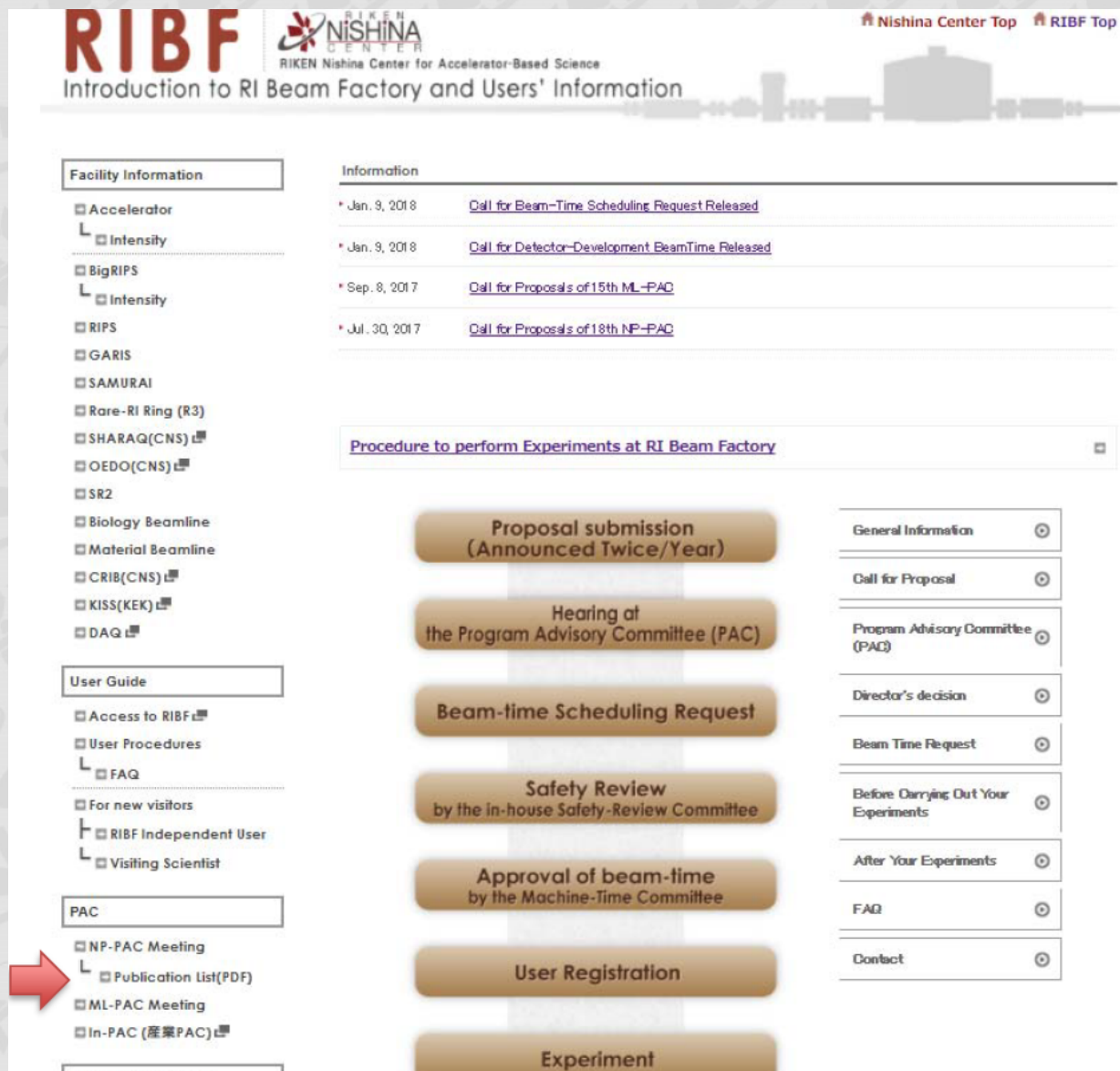
beam	# exp	days
Light ions	3	20.5
$^{18}\text{O}$	4	19
$^{48}\text{Ca}$	7	30.5
$^{70}\text{Zn}$	4	21.5
$^{78}\text{Kr}$	6	36.5
$^{124}\text{Xe}$	3	19.5
$^{238}\text{U}$	13	75
Total	40	222.5

FY2017 – 64.5 days of PAC-approved exps done

FY2016 – 79 days of PAC-approved exps done

FY2015 – 62 days of PAC-approved exps done

Publication List  
from NP-PAC expts  
Now available  
on the web



**RIBF** RIKEN NISHINA CENTER  
RIKEN Nishina Center for Accelerator-Based Science  
Introduction to RI Beam Factory and Users' Information

[Nishina Center Top](#) [RIBF Top](#)

**Facility Information**

- Accelerator
  - Intensity
- BigRIPS
  - Intensity
- RIPS
- GARIS
- SAMURAI
- Rare-RI Ring (R3)
- SHARAQ(CNS)
- OEDO(CNS)
- SR2
- Biology Beamline
- Material Beamline
- CRIB(CNS)
- KISS(KEK)
- DAQ

**User Guide**

- Access to RIBF
- User Procedures
  - FAQ
- For new visitors
  - RIBF Independent User
  - Visiting Scientist

**PAC**

- NP-PAC Meeting
  - Publication List(PDF)
- ML-PAC Meeting
- In-PAC (産業PAC)

**Information**

- \* Jan. 9, 2018 [Call for Beam-Time Scheduling Request Released](#)
- \* Jan. 9, 2018 [Call for Detector-Development BeamTime Released](#)
- \* Sep. 8, 2017 [Call for Proposals of 15th ML-PAC](#)
- \* Jul. 30, 2017 [Call for Proposals of 18th NP-PAC](#)

[Procedure to perform Experiments at RI Beam Factory](#)

**Proposal submission  
(Announced Twice/Year)**

**Hearing at  
the Program Advisory Committee (PAC)**

**Beam-time Scheduling Request**

**Safety Review  
by the in-house Safety-Review Committee**

**Approval of beam-time  
by the Machine-Time Committee**

**User Registration**

**Experiment**

**General Information**

- [Call for Proposal](#)
- [Program Advisory Committee \(PAC\)](#)
- [Director's decision](#)
- [Beam Time Request](#)
- [Before Carrying Out Your Experiments](#)
- [After Your Experiments](#)
- [FAQ](#)
- [Contact](#)

Here! →



# Announcements (2/2)

- **Next NP-PAC**  
to be held on 29 Nov (Thu) – 1 Dec (Sat)  
NN2018@Omiya 4 Dec (Tue) – 8 Dec (Sat)

- **RIBF Symposium and Mini-Workshop**  
[http://www.nishina.riken.go.jp/ulic/ulic\\_apply.html](http://www.nishina.riken.go.jp/ulic/ulic_apply.html)

## [Symposium]

Objective: Exchange views among researchers in a relevant field.

Maximum amount of financial support: 500,000 JPY

Deadline: Application must be submitted in March and in September.

## [Mini-Workshop]

Objective: To solve specific problem. Analysis meeting is acceptable.

Maximum amount of financial support: 150,000 JPY

Deadline: Applications will be accepted all the time being reviewed  
and evaluated immediately.